



## Next Meeting in May Sunday 8<sup>th</sup>

Belviour Guides Hall, 6 Silva Drive West Wodonga

Meetings start with a BBQ lunch, Call in Via VK3RWO, 146.975, 123 Hz

As you know we participated in the 2022 John Moyle Field Day  
The results have just been announced and I am pleased to announce that

NEVARC VK3ANE has achieved

**2<sup>nd</sup> Place** in the

**6 hour Multi operator**

**All band section with 410 points**

**Congratulations to all involved**

*Frank Scott VK2BFC Club Secretary*

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# WHEN FLOOD WATERS RISE, WE RISE UP AS A HAM COMMUNITY.



**We are supporting  
people impacted by the  
recent floods by  
distributing gift cards to  
our fellow amateurs.**



<https://nevarc.org.au/flood-recovery/>

With the current state of Floods in Southern Queensland and Northern NSW, the members of the NEVARC have decided that the Club Donate to amateurs in the affected areas.

We have decided on a two pronged approach, being cash assistance straight away and a “Radio Drive” to give them some gear as a second tier approach when they are rebuilding their shacks.

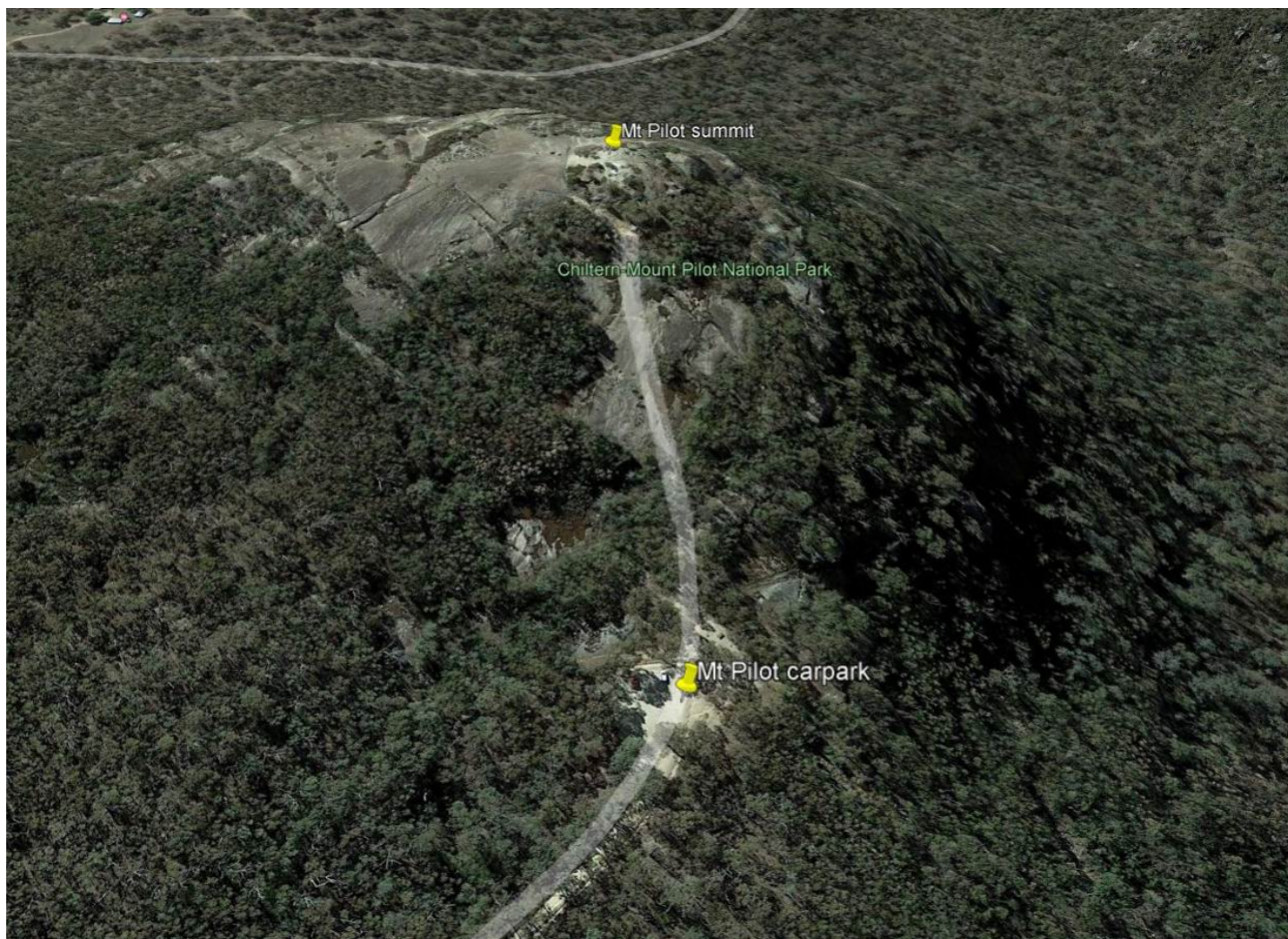
Please, Download the Policy and Procedure Document, pass this to all amateurs, whether they need help, or are willing to help. <http://nevarc.org.au/wp-content/uploads/2022/03/Flood-policy.pdf>

If you are in need of assistance, please contact us at [floodrecovery@nevarc.org.au](mailto:floodrecovery@nevarc.org.au).

If you would like to donate, send an email to [contact@nevarc.org.au](mailto:contact@nevarc.org.au).

If you have equipment you can spare, let us know at [radiodrive@nevarc.org.au](mailto:radiodrive@nevarc.org.au).

# Mount Pilot Pathway



A photo taken from Google Earth of the path from the base car park to the top of Mount Pilot.

The length of the path to the top is just shy of 300 meters in a straight line.

But given the amount of trees to navigate the length would be a bit further.

Carrying equipment on your walk would make the distance seem even longer.

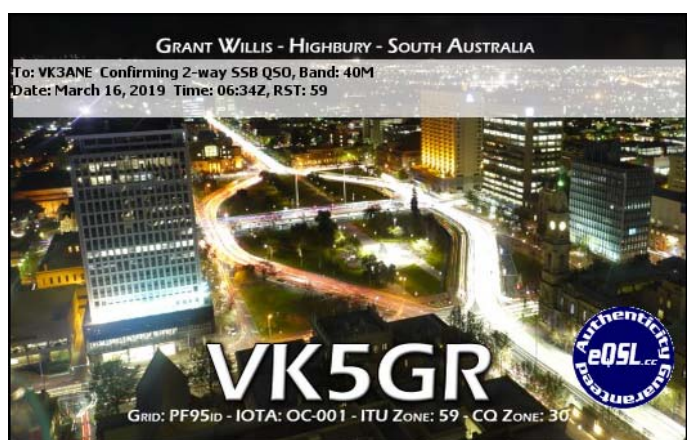
Operating portable involves exercise.

Amateur Radio is healthy for you.



# John Moyle Field Day eQSL Cards

NEVARC received a selection of eQSL cards from the John Moyle Field Day both this year and in 2019.





# VK3BDL

A Michael Goode  
42 Fourth Street  
Black Rock VIC, 3193  
Australia  
Loc: QF22ma ITU: 59 CQ: 30  
Also VK3QK, G8LCI  
Ex ON8ST, 3D2MA, 9J2MG  
Active from 80M to 6 cms

To: VK3ANE Confirming 2-way TR SSB QSO  
Date: March 19, 2022 Time: 04:24 UTC  
Band: 40M UR Sigs: 59-010

# VK2QN

John Watt  
28 Cliffbrook Crescent  
Leonay, NSW, 2750  
Australia  
ITU: 59 CQ: 30 Grid: QF56HF

RIG: TS-520S / TS-440S  
PWR: 100W SSB / 30W DIGI  
ANT: G5RV (80-17m) / Vertical (15-10m)

To: VK3ANE Confirming 2-way SSB QSO, Band: 40M  
Date: March 19, 2022 Time: 03:18Z, RST: 59  
Tnx FB QSO, 73 de John

# VK5VC

Charlie McEachern  
10 Mayfair Street  
Maylands Sth Aust, 5069  
Australia  
ITU: 59 CQ: 30 Grid: PF95HC  
Rig: IC7410 / IC7000 / IC7300  
Ant 1-- Squidpole (All band vertical)  
Ant 2 -- 43M endfed long wire  
Ant 3 Portable G5RV

To: VK3ANE Confirming 2-way SSB QSO, Band: 40M  
Date: March 16, 2019 Time: 05:58Z, RST: 59

# VL3G

Stephen Warrillow  
P.O. Box 452  
Canterbury, 3126  
Australia

TS2000x  
Broadband dipole  
www.vk3sn.net

ITU: 59 CQ: 30 Grid: QF22qq

To: VK3ANE Confirming 2-way SSB QSO, Band: 40M  
Date: March 19, 2022 Time: 01:00Z, RST: 59

# VK4SN

Alan Shannon  
49 Jahn Drive  
Glenore Grove, 4342  
Australia  
Loc: QG62qk ITU: 59 CQ: 30  
IOTA: OC-001  
Formerly VK3PAS, VK6NAZ, VK6AMZ  
www.vk4sn.com

To: VK3ANE This confirms our 2-way SSB QSO  
Date: March 16, 2019 Time: 04:54 UTC  
Band: 40M UR Sigs: 59

# VK2BV

Waverley Amateur Radio Society  
PO BOX 634  
ROSE BAY, NSW 2029  
AUSTRALIA  
Loc: QF56pd ITU: 59 CQ: 30  
IOTA: OC-001  
Established in 1919  
Australia's Oldest Continually  
Licensed Amateur Radio Club  
www.vk2bv.org

To: VK3ANE This confirms our 2-way SSB QSO  
Date: March 16, 2019 Time: 06:17 UTC  
Band: 40M UR Sigs: 59



**Australia**  
Worimi Country  
**VK2MET**

**Alan McDonald**  
Yellowtail Way  
CORLETTE NSW 2315  
QF67bg ITU 59 CQ 30  
Allstar 512811

Port Stephens  
Amateur Radio Club

**MANY THANKS AND BEST OF LUCK!**

To: VK3ANE Confirming 2-way SSB QSO, Band: 40M  
Date: March 19, 2022 Time: 02:56Z, RST: 59  
John Moyle Memorial Field Day - 2022

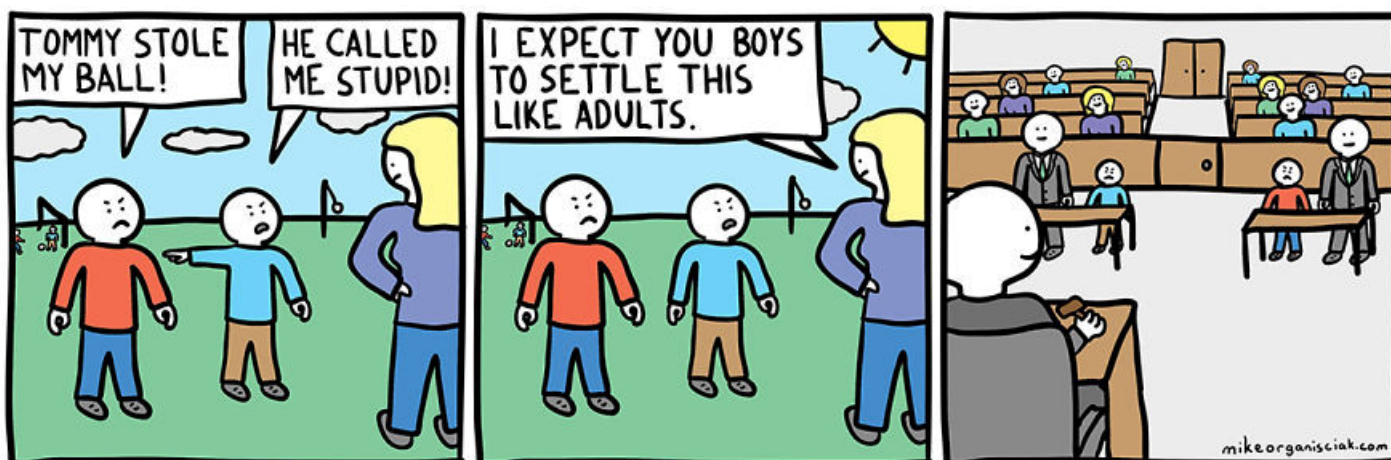
**VK3YV**  
Tony Sanford

To: VK3ANE This confirms our 2-way SSB QSO  
Date: March 19, 2022 Time: 04:22 UTC  
Band: 40m UR Sigs: 59  
JMMFD/VKFF-2200 SWEETWATER CREK NCR

**TEN - TEN**  
**VK2ZQ**

Mike Ramsay  
168 Rothery Rd  
Bellambi, 2518  
Australia  
Loc: QF55KP ITU: 59 CQ: 30  
10-10:30Z48  
FT 2000 , Acom 1500 Amp  
3 ele SteppIr DB18  
Butternut HF2V for 40&80m  
5 ele LFA on 6m

To: VK3ANE This confirms our 2-way SSB QSO  
Date: March 19, 2022 Time: 04:16 UTC  
Band: 40M UR Sigs: 59



# What Does 73 Mean in Ham Radio?

The phrase seventy-three or seven three is often uttered at the end of a ham radio conversation. If you are a new user, you will immediately be baffled about its meaning. Seasoned operators of ham radios, however, are aware of ham radio 73 meaning, as well as other codes. In our ham radio jargon, 73 means "Best Regards."

BUT:- What is its origin?

Traditionally, users of amateur radios and similar forms of communication do not have the luxury of time. They make the most out of every second that they are on the air. Hence, they must use short-hand codes, and one of them is 73. The ham radio 73 code is from the Phillips code. This is a string of numeric messages that were created for cutting the transmission time during radio communication.

One of the earliest documents that show the meaning of the 73 code is the National Telegraphic Review Operators Guide. It was released in 1857, which was meant to create a standard guide on how radio operators communicate around the world. In 1857, however, the meaning of 73 was not Best Regards.

During that time, 73 meant My Love to You. It is a literal expression of the love of one person to the other over the radio. It might seem flowery, but it was a standard code used by telegraph operators to show how they wish the other person well.

Meanwhile, in the 92 Code published in 1859, 73s meaning changed slightly. It was similar to the first list released in 1857. It was created by Western Union and had numbers up to 92 with different meanings. In such code, 73 meant All My Love. This also means accepting my compliments, showing appreciation to the person you are talking to.

From 1859 to 1900, code 73 in ham radio continued to evolve. According to The Telegraph Instructor by Dodge, it meant compliments. Meanwhile, if you look at The 20th-century Manual of Railway and commercial Telegraphy, you will see that 73 meant my compliments to you or compliments.

In the early 1900s, the first publication of Theodore A. Edisons Telegraphy Self-Taught defined code 73 as compliments.

Meanwhile, the Dodge Manuals 1902 edition is the first document to note that 73 means best regards, which model most ham radio operators are following these days.

So from me, John Knox VK4FJRK I bid you all SEVENTY THREE.

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## UKRAINE NEON SHORTAGE

Ukraine's two leading suppliers of neon, which produce about half the world's supply of the key ingredient for making chips, have halted their operations as Moscow has sharpened its attack on the country, threatening to raise prices and aggravate the semiconductor shortage.

Some 45-54 percent of the world's semiconductor grade neon, critical for the lasers used to make chips, comes from two Ukrainian companies, Ingas and Cryoin.

The stoppage casts a cloud over the worldwide output of chips, already in short supply after the coronavirus pandemic drove up demand for cell phones, laptops and new cars, forcing some firms to scale back production.

# RF POWER, HOW MUCH DO YOU NEED?

It is solely the responsibility of a licence holder to operate within his licence conditions as defined by the LCD. ACMA inspectors randomly drive around listening; they also have remote monitoring stations around the place.

## Science Facts

1KW at 1KM from a station reads the same on a spectrum analyser as 0.001W at the station.  
Free space loss is ~60dB

So it can be determined by any tech savvy ham, or ACMA Radio Inspector;

A reading of -20dBm at 1km from a station would mean the operator is using 10 Watts.  
A reading of -10dBm at 1km from a station would mean the operator is using 100 Watts.  
A reading of -4dBm at 1km means the operator is using 400 Watts.  
A reading of 0dBm at 1km means 1K Watt, and  
A reading of 4dBm at 1km means 2.5K Watts.

It's not hard to measure these things.

With extra study and understanding, nobody has to be limited to 10 Watts.  
They can do their 100 watt, or 400 watt, without the risk of being caught, fined and possibly losing their equipment.

Keeping in mind 100 Watts of RF can be very damaging to cell tissue (can cause cancer) to someone who has a very little understanding of the dangers of RF, which is why they set it at 10 Watts in the first place for Foundation licences.

To put it into another perspective, An S- point on a modern rig is 6dB

The difference between 10 Watts and 100 Watts is 10dB  
The difference between 100 Watts and 400 Watts is a little over 6dB  
The difference between 100 Watts and 1K watt is also 10dB

So, the difference between 10 Watts and 400 Watts at the other end is a touch over 3 S-points.

Wanting 1K Watt over 400 Watts is a under an S-point gain at the other end.  
In all honesty, someone staring at their S-meter isn't going to know.  
If the signal is that marginal, 3 and a bit Db might help a bit.

It is usually more effective to improve your antenna system which gives both receive and transmit improvements. Of course that depends on how much area you can dedicate to that at your home / office / flat / farm / holiday house / caravan / or wherever QTHR is for you.

ARPANSA [The Australian Radiation Protection and Nuclear Safety Agency] publishes standards for limiting RF exposure. A brief look at their graphs, exposure intensity increases exponentially after 10 MHz. Apparently the most danger to humans, other than the 2.45 GHz resonant frequency of water, is between 80 MHz and 100 MHz, which also interestingly enough is the third harmonic (the most prolific harmonic) of the top end of the HF band.

Even at low power, playing with microwave amateur equipment requires care and respect for radiated energy.



# FREE DMR

"Digital voice fans - The FreeDMR network is back in VK-land with a new master server, hosted in a Sydney cloud data centre and managed by VK2WAY.

FreeDMR is a global DMR Network for Amateur radio users around the world and since its inception in November 2020 has grown to over 60 networked OpenBridge servers, over 700 talk groups and over 5000 regular users.

FreeDMR promises freedom for Repeater, Gateway Keepers and even some Hotspots to have full control, instead of being told what has to go where and when or what links to what.

FreeDMR offers features over other DMR networks including:

Client configurations sent via Protocol Options line.

Dial-a-TG - All talk groups shifted via Private Call on Slot 2.

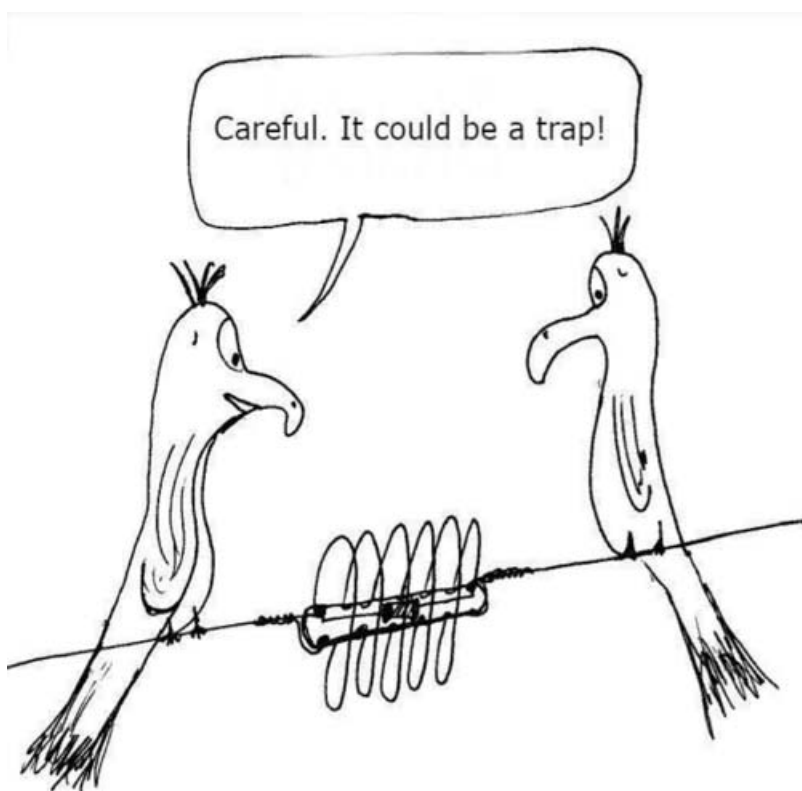
Automated repeater voice idents.

Multi-mode reflectors and bridges including YSF, D-Star, All-star, EchoLink & Peanut

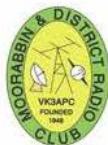
Hotspots are welcome to connect anytime by finding FreeDMR Australia in the Pi-Star DMR Network list or following the instructions on the FreeDMR website. Repeater and OpenBridge connection enquiries are welcome and can be made directly to VK2WAY or via the FreeDMR Australia Facebook page or Contact FreeDMR link on the FreeDMR UK website - <http://freedmr.uk>.

\*Contact\*: VK2WAY Jared Quinn Email: [cq@vk2way.id.au](mailto:cq@vk2way.id.au) Telegram: @vk2way FreeDMR TG505

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# VK3APC



## Moorabbin and District Radio Club

# HAMFEST 2021

**10 AM**  
**Saturday 14 May**

**\*New Location\*** Kingston City Hall, Cnr Nepean Hwy & South Rd Moorabbin  
**Melways Reference 77 D4**

GREAT VENUE  
PLENTY OF SPACE  
MELBOURNE'S BIGGEST  
MAJOR AND MINOR DOOR PRIZES

The **Moorabbin & District Radio Club** have much pleasure in inviting you to participate in VK3's biggest Annual Hamfest.

Snacks and hot food will be available.

Talk in via **439.900 MHz 70 cm VK3RSE**.

**PRIZE DRAWS:** Every entry ticket goes into the draw & additional tickets on sale.

**SALES: NEW** Importers and suppliers of amateur equipment & accessories.

**SALES: USED** Preloved ham gear & accessories, PC's & bits & pieces.

**ENTRY ONLY \$8.00**

**Doors Open 10 am**

**Entry tickets on sale prior**

Includes **FREE** draw in the major door prize

Tables available at \$20 each, (1.8m long)

Table bookings **online** only get in early and secure!  
<https://mdrc.org.au/mdrc-hamfest/>

Lee Moyle, VK3GK Mobile **0429 810 101**

Graeme Lewis, VK3GL Mobile **0418 171 601**

**All inside and undercover. Demonstrations of Radio equipment and accessories.**

Webpage - [www.mdrc.org.au](http://www.mdrc.org.au)



## ANNOUNCING: di-dah!

# The Don Edwards Memorial Slow Morse Contest 2022

The contest is to remember Don Edwards VK2NV (SK), a long-time member of the St. George Amateur Radio Society and keen Morse operator. It is also to encourage amateurs who rarely or never use Morse code to give it a try. Open to all VK and ZL amateurs. Only single, non-assisted stations. No multi-operator stations.

**Saturday 14 May 6pm to 9pm EAST (0800-1100 UTC) – 80 metres**

**Sunday 15 May 1pm to 4pm EAST (0300-0600 UTC) – 40 metres**

Amateurs can enter either or both sessions – home, portable or mobile.

**The speed limit is 10 words per minute** to encourage inexperienced or rusty operators to try their hand or fist – all contacts sent by hand and received by ear. No keyboards, memory keyers or computer readers allowed. Hand sent Morse code can be from a straight key, mechanical bug, or electronic keyer (but no memory or canned messages).

**Scoring:** Each contact will be counted as 1 point. To encourage those who never sat for or passed a Morse exam for their licence, an extra 2 points per session can be claimed. Contestants who also self declare that "they had fun" during the contest can add 1 extra bonus point.

Logging requirements and all other details are set out in the SGARS website.

[www.sgars.org](http://www.sgars.org)



# WIA Virtual Conference 2022 - Antarctic Gateway



The WIA AGM and Virtual Conference is being held on Saturday May 7, 2022.

The morning consists of the Online Annual General Meeting and the afternoon is the online / Virtual Conference with the theme Antarctic Gateway and will be coming to you from Hobart Tasmania.

For those who remember "Pre-COVID" times, the 2020 WIA AGM & Conference was to be held in Hobart Tasmania with the theme - Antarctic Gateway.

Well spin forward two years and the Virtual Conference is being streamed from Hobart Tasmania on the afternoon of May 7, 2022.

It consists of an afternoon of brilliant presentations all about different aspects of Antarctic history, adventure, research and challenges.

Our keynote speaker is Professor Elizabeth Leane from the University of Tasmania with a presentation on Sidney Jeffryes and the role played by wireless in the Australasian Antarctic Expedition (1911-14)

We have Rex Moncur VK7MO who was Director Australian Antarctic Division (AAD) between 1988-1999 with his experiences as a Director of the AAD - the good and the challenging!

We have Dr Andrew Klekociuk from the AAD who is giving us a fascinating presentation on the atmospheric studies and research happening in Antarctica.

We finish with Peter Yates VK7PY and Kim Briggs VK7KB both from the AAD with a presentation on Antarctic communications challenges and review.

These presentations will all be professionally streamed using zoom for those registered participants.

To register please go to

<https://www.eventbrite.com.au/e/wia-virtual-conference-antarctic-gateway-tickets-250007648607>

We look forward to seeing you on May the 7th at the WIA Virtual Conference - Antarctic Gateway.

73, WIA Virtual Conference Organising Committee

A little five year old girl was usually driven to school in the mornings by her Grandad, but one day he had a bad cold so her Grandmother took her. That night the little girl told her parents that the ride to school with Granny was very different. What made it different? asked her parents. Well, she replied, Gran and I didn't see a single tosser, blind bastard, foreign prick or wanker on the whole journey.

**Her: What is that cologne you are wearing, it smells expensive**


**Him: Super Unleaded**






I was robbed at the petrol station today.  
I called the police and they asked me if I knew who did it?  
I told them,  
"Yes, it was pump number 5."



**March 2021:** Not allowed to travel more than 5kms 

**March 2022:** Can't afford to travel more than 5kms 



When your cat watches too  
much Master Chef...





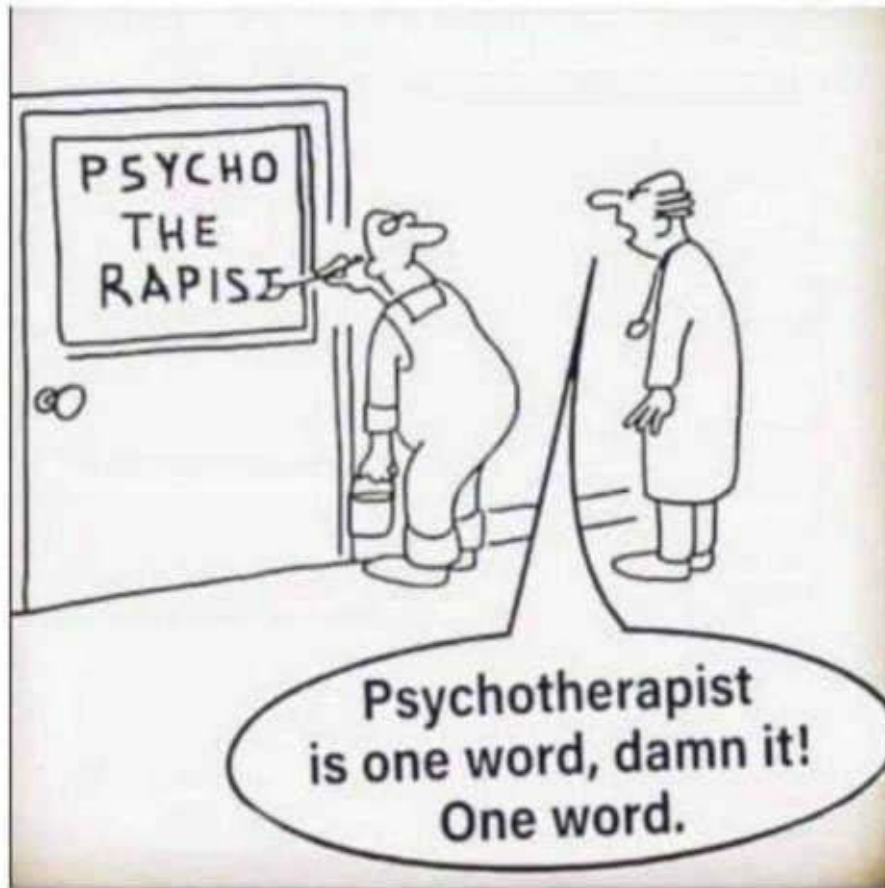




when the waiter asks if they can take ur plate and u still got fries on there







Everyone being summoned to Jury Duty  
this month:





When you finally pay  
all your debts and start  
enjoying your youth



**As you get older, you've  
got to stay positive.  
For example, the other day  
I fell down the stairs.  
Instead of getting upset,  
I just thought,  
"Wow, that's the fastest  
I've moved in years!"**



**IF AN AIRPLANE PILOT  
CAN REMEMBER ALL THE BUTTONS**



O.k. fine.  
I'll start working from the office again.





# WHAT HAVE YOU TRIED?

Sometimes Everything. I push buttons. I turn dials. I read numbers. Sometimes I make up little stories in my head about what the numbers mean.





## *Australia Ham Radio 40 Meter Net*



7 Days a Week  
10am Local time  
(East coast)

**7.100 MHz LSB**

Approximately + or – QRM

Hosted by Ron VK3AHR

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## NEVARC 2 Meter Net

Net Control VK3ANE

*NEVARC Linked Repeaters*

***VK2RWD, VK3RWO, VK3RWC***

**Wednesday - 8.00pm**

**Local time**

President, VK3VS, Matt  
Vice President, VK2VU, Gary  
Secretary, VK2BFC, Frank  
Treasurer, Amy Bilston



## NEVARC CLUB PROFILE

### History

The North East Victoria Amateur Radio Club (NEVARC) formed in 2014.

As of the 7th August 2014, Incorporated, Registered Incorporation number A0061589C.

NEVARC is an affiliated club of the Wireless Institute of Australia and The Radio Amateur Society of Australia Inc.

### Meetings

Meetings details are on the club website, the Second Sunday of every month, check for latest scheduled details.

Meetings held at the Belviour Guides Hall, 6 Silva Drive West Wodonga.

Meetings commence with a BBQ (with a donation tin for meat) at 12pm with meeting afterwards.

Members are encouraged to turn up a little earlier for clubroom maintenance.

Call in Via VK3RWO, 146.975, 123 Hz tone.

### NEVARC NETS

#### HF

7.100 MHz      7 Days a Week - 10am Local time

#### VHF

VK2RWD      Wednesday - 8.00pm Local time

NEVARC Linked Repeaters: VK2RWD, VK3RWO, VK3RWC

### Benefits

To provide the opportunity for Amateur Radio Operators and Short Wave Listeners to enhance their hobby through interaction with other Amateur Radio Operators and Short Wave Listeners. Free technology and related presentations, sponsored construction activities, discounted (and sometimes free) equipment, network of likeminded radio and electronics enthusiasts. Excellent club facilities and environment, ample car parking.

**Website:**      [www.nevarc.org.au](http://www.nevarc.org.au)

**Postal:**

NEVARC Secretary  
PO Box 8006  
Birallee Park  
Wodonga Vic 3690

**Facebook:**      [www.facebook.com/nevicARC/](https://www.facebook.com/nevicARC/)



All editors' comments and other opinions in submitted articles may not always represent the opinions of the committee or the members of NEVARC, but published in spirit, to promote interest and active discussion on club activities and the promotion of Amateur Radio.

Contributions to NEVARC News are always welcome from members.

Email attachments of Word™, Plain Text, Excel™, PDF™ and JPG are all acceptable.

You can post material to the Post Office Box address at the top of this page, or email [magazine@nevarc.org.au](mailto:magazine@nevarc.org.au)

Please include a stamped self-addressed envelope if you require your submission notes returned.

Email attachments not to exceed 5 Mb in file size. If you have more than 5 Mb, then send it split, in several emails to us.

Attachments of (or thought to be) executable code or virulently affected emails will not be opened.

Other persons or radio clubs may edit or copy out such as they like from the magazine but a reference to NEVARC News is appreciated, except copyrighted (©) material or as otherwise indicated.

Other articles credited to outside sources should ask for their permission if they are used.

While we strive to be accurate, no responsibility taken for errors, omissions, or other perceived deficiencies, in respect of information contained in technical or other articles.

Any dates, times and locations given for upcoming events please check with a reliable source closer to the event.

This is particularly true for pre-planned outdoor activities affected by adverse weather etc.

The club website <http://nevarc.org.au> has current information on planned events and scheduled meeting dates.

You can get the WIA News sent to your inbox each week by simply clicking a link and entering your email address found at [www.wia.org.au](http://www.wia.org.au). The links for either text email or MP3 voice files are there as well as Podcasts and Twitter. This WIA service is FREE.